

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P#

Luminaire Tested: **HBLED-LD5-12SE-W-CLWG-UNV-L835-ED1-U**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33385)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-12SE-W-CLWG-UNV-L835-ED1-U
Description: METALUX HIGH BAY LINEAR LED
WIDE DISTRIBUTION WITH CLEAR LENS, WIREGUARD & DOORFRAME
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

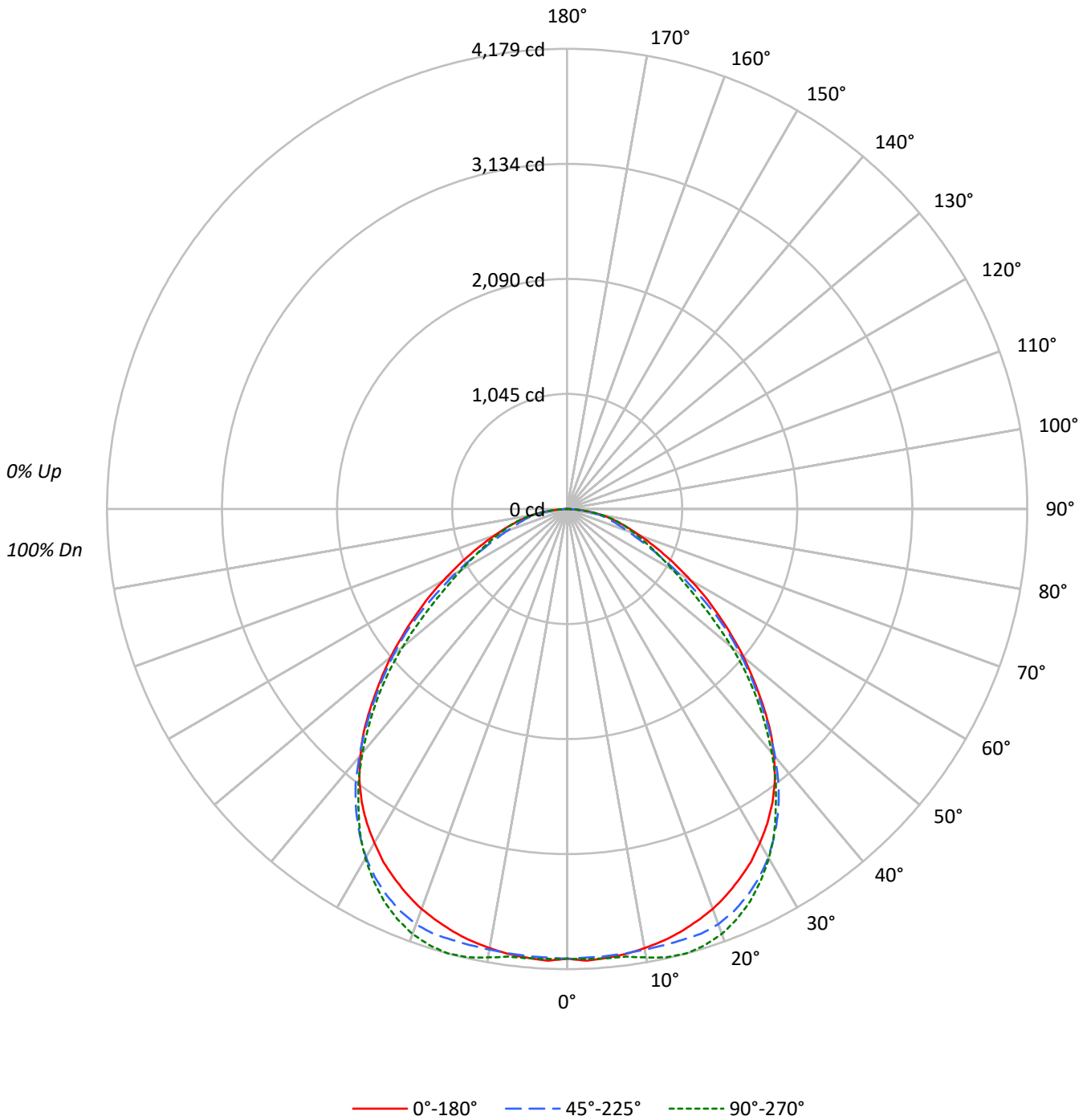
Lumens per Lamp: N/A
Luminaire Lumens: 10185.0 lumens
Efficiency: N/A
Efficacy: 133.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.3 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 76.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





TEST NUMBER: P#

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88					86				
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75					73				
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	65					63				
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57					55				
5	79	67	58	52	77	65	57	52	63	56	51	61	55	50	60	54	50					48				
6	73	60	52	46	71	59	51	45	58	50	45	56	50	45	54	49	44					42				
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40					38				
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36					34				
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32					31				
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30					28				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5495	5495	5495
5°	5527	5504	5532
10°	5532	5551	5650
15°	5539	5643	5821
20°	5535	5746	5881
25°	5501	5752	5836
30°	5438	5676	5694
35°	5341	5492	5426
40°	5130	5162	5080
45°	4780	4730	4634
50°	4377	4306	4086
55°	3931	3786	3454
60°	3486	3132	2982
65°	3072	2602	2706
70°	2747	2258	2578
75°	2574	2196	2607
80°	2506	2220	2481
85°	2001	1757	1822



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	389.0	3.8
10°-20°	1145.9	11.3
20°-30°	1762.9	17.3
30°-40°	2057.4	20.2
40°-50°	1911.8	18.8
50°-60°	1417.1	13.9
60°-70°	866.3	8.5
70°-80°	493.4	4.8
80°-90°	141.1	1.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3297.8	32.4
0°-40°	5355.2	52.6
0°-60°	8684.1	85.3
0°-90°	10185.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10185.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4084	4084	4084	4084	4084	
5°	4092	4073	4076	4072	4096	389
15°	3976	3974	4051	4131	4179	1122
25°	3706	3734	3874	3907	3931	1707
35°	3252	3277	3343	3316	3303	2026
45°	2512	2527	2486	2447	2435	1936
55°	1676	1634	1614	1499	1473	1504
65°	965	876	817	840	850	966
75°	495	464	422	481	501	530
85°	130	126	114	118	118	149
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4083.9	4083.9	4083.9	4083.9	4083.9
2.5°	4106.0	4082.8	4078.6	4069.1	4090.2
5°	4092.3	4073.4	4075.5	4072.3	4095.5
7.5°	4076.5	4062.8	4071.3	4070.2	4100.7
10°	4049.1	4041.8	4062.8	4086.0	4135.5
12.5°	4018.6	4011.2	4057.6	4116.5	4170.3
15°	3976.4	3974.3	4051.2	4131.3	4178.7
17.5°	3923.8	3926.9	4043.9	4112.3	4154.5
20°	3865.8	3871.1	4013.3	4069.1	4107.1
22.5°	3791.1	3809.0	3954.3	4000.7	4030.2
25°	3705.7	3734.2	3874.3	3906.9	3931.2
27.5°	3614.1	3642.5	3775.3	3792.1	3805.8
30°	3500.3	3540.4	3653.1	3655.2	3664.7
32.5°	3384.5	3420.3	3506.6	3497.2	3499.3
35°	3251.7	3277.0	3343.4	3316.0	3303.3
37.5°	3099.0	3112.7	3154.8	3113.7	3111.6
40°	2921.0	2938.9	2938.9	2882.0	2892.5
42.5°	2731.4	2737.7	2711.4	2657.6	2666.1
45°	2512.3	2527.0	2485.9	2447.0	2435.4
47.5°	2295.3	2310.0	2266.8	2221.5	2201.5
50°	2090.9	2083.6	2057.2	1980.3	1951.9
52.5°	1879.2	1856.0	1845.5	1732.8	1700.1
55°	1675.9	1633.8	1613.8	1498.9	1472.6
57.5°	1487.3	1411.5	1373.6	1284.1	1273.5
60°	1295.6	1210.3	1164.0	1106.0	1108.1
62.5°	1121.8	1032.3	976.5	959.6	967.0
65°	964.9	876.4	817.4	839.5	850.1
67.5°	822.7	750.0	683.6	735.2	745.8
70°	698.4	640.4	574.1	649.9	655.2
72.5°	595.2	547.7	491.9	563.5	575.1
75°	495.1	464.5	422.4	481.4	501.4
77.5°	407.7	383.4	359.2	395.0	417.1
80°	323.4	299.2	286.5	305.5	320.2
82.5°	228.6	212.8	200.1	213.8	221.2
85°	129.6	126.4	113.8	118.0	118.0
87.5°	29.5	33.7	37.9	34.8	29.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)